

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P199272

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T4FT-8030-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5456 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

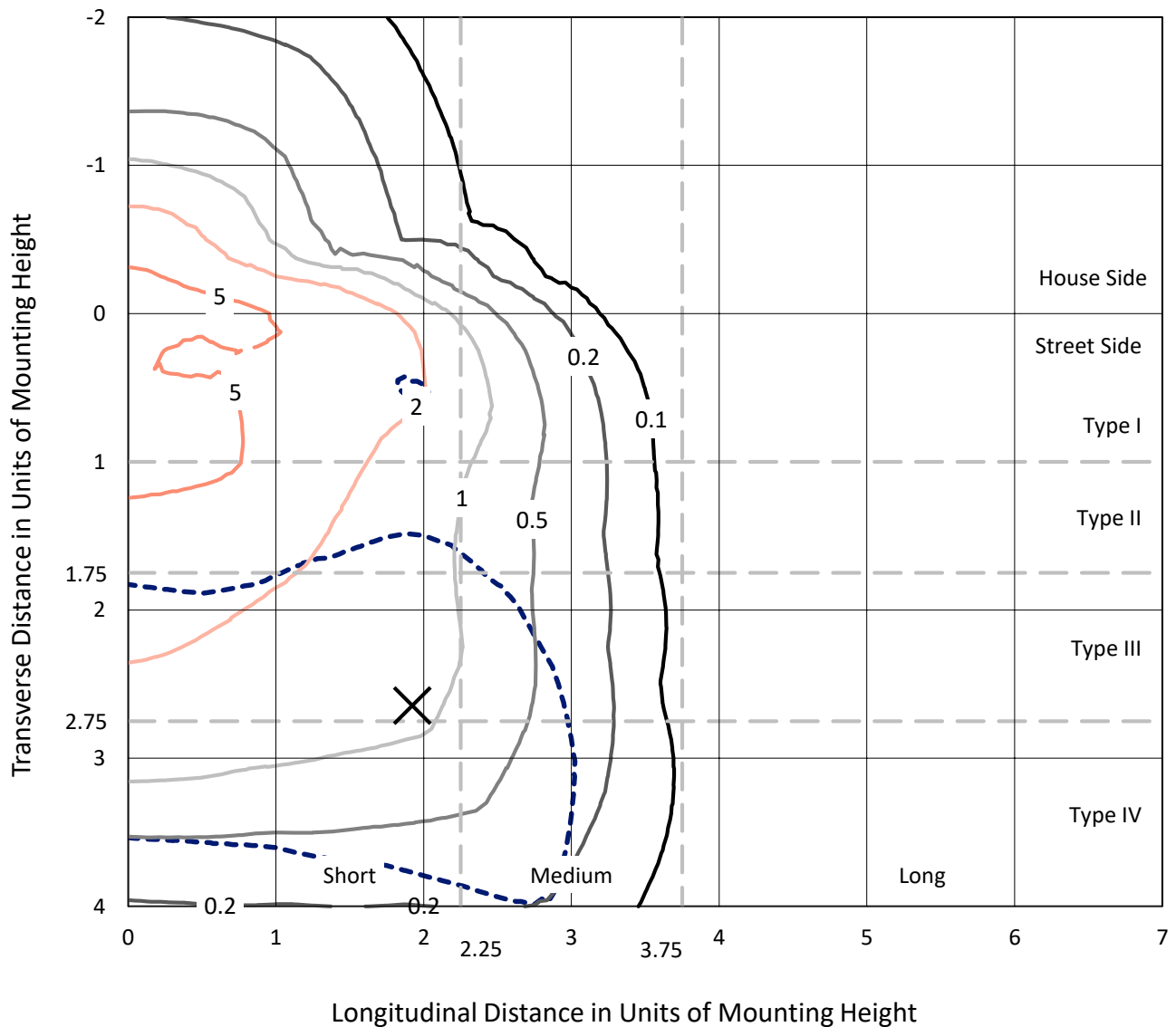


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

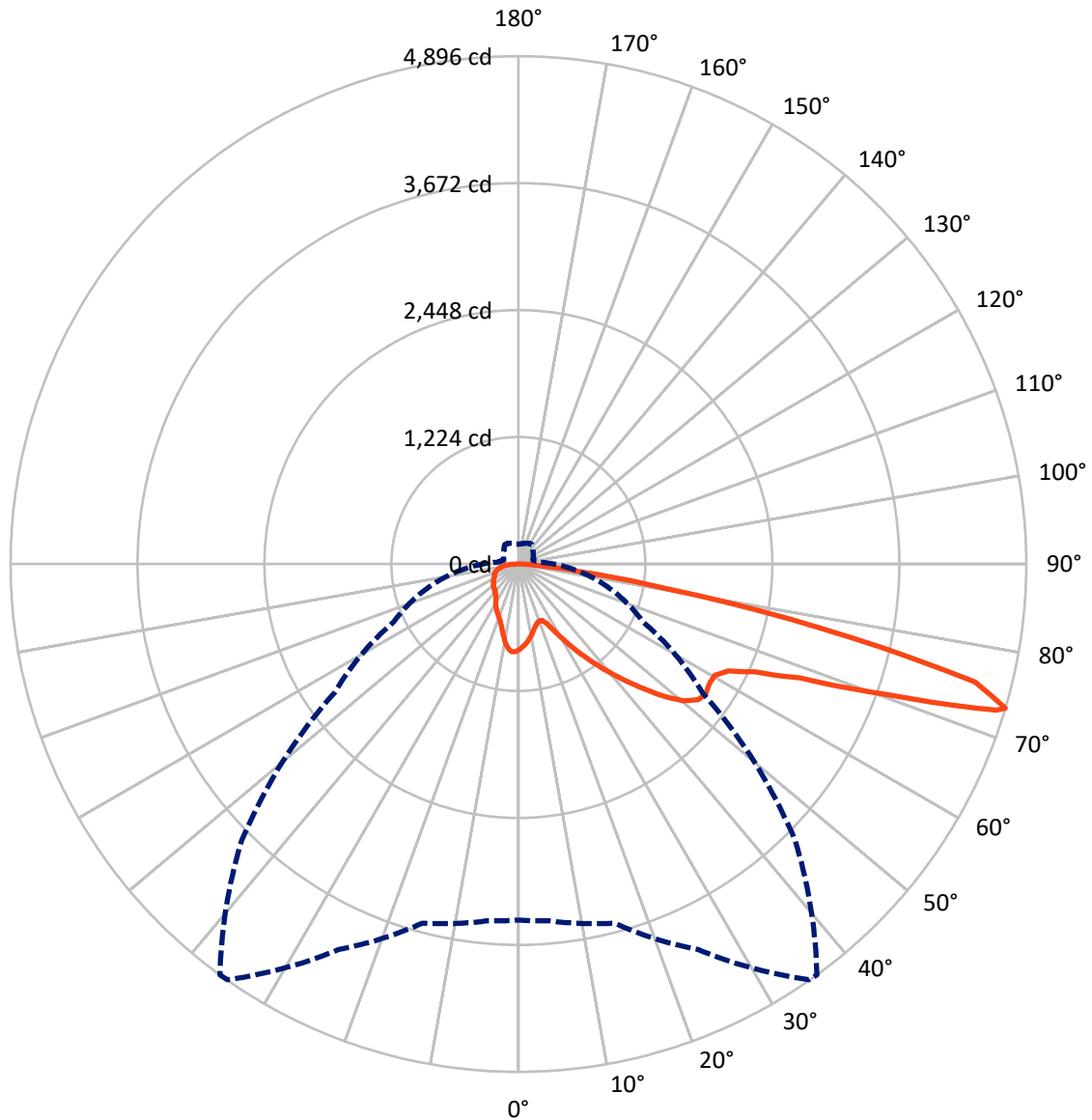


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1052.1	0.0	1052.1
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	4403.9	0.0	4403.9
	% Fixture	80.7	0.0	80.7
Total	Lumens	5456.0	0.0	5456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	1.4
10°-20°	188.5	3.5
20°-30°	302.3	5.5
30°-40°	499.9	9.2
40°-50°	773.6	14.2
50°-60°	1035.6	19.0
60°-70°	1352.9	24.8
70°-80°	1105.1	20.3
80°-90°	123.0	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5456.0	100.0
0°-180°	5456.0	100.0

Coefficient of Utilization



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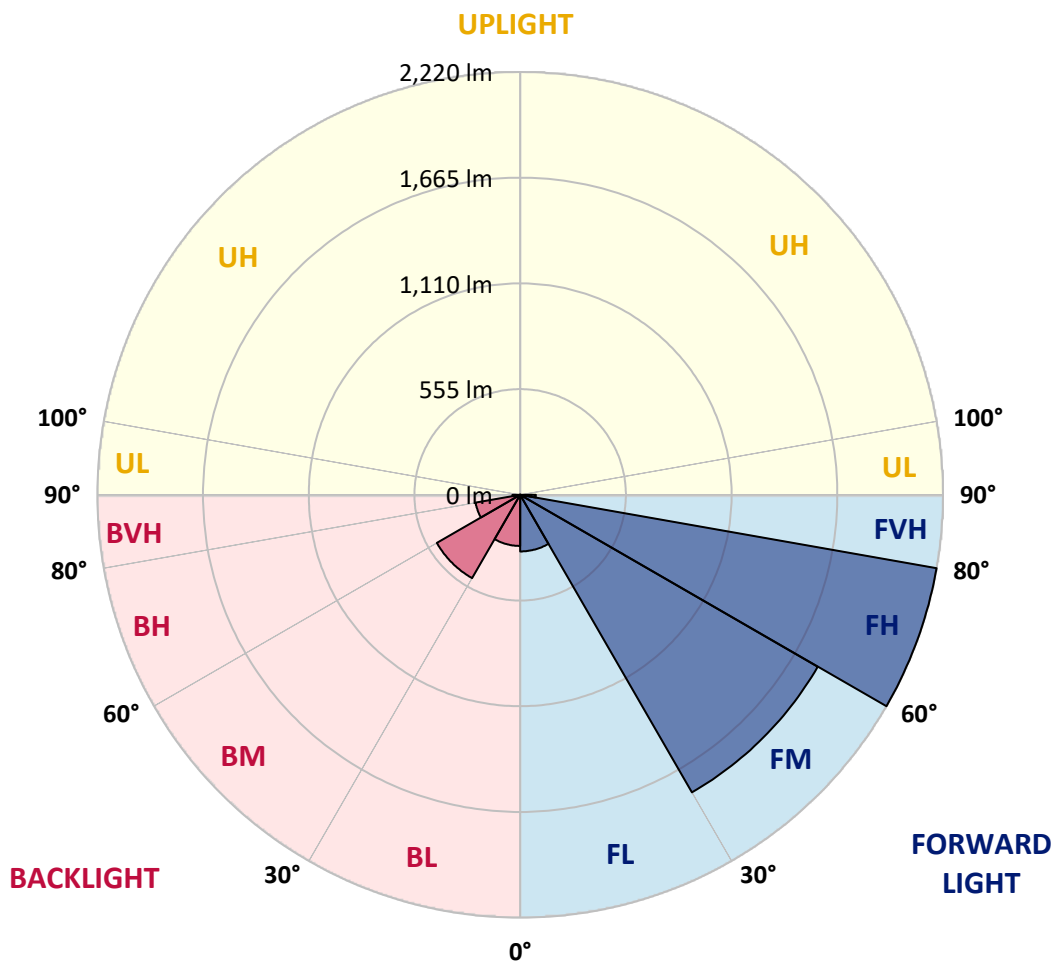
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.3	5.4			
FM (30°-60°)	1803.9	33.1			
FH (60°-80°)	2220.2	40.7			G2/5000
FVH (80°-90°)	82.5	1.5			G1/100
BL (0°-30°)	268.6	4.9	B1/500		
BM (30°-60°)	505.3	9.3	B1/1000		
BH (60°-80°)	237.7	4.4	B1/500		G1/500
BVH (80°-90°)	40.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4
2.5°	794.9	797.0	797.3	799.7	799.7	799.4	800.4	804.6	806.7	811.5	815.7
5°	755.7	758.1	759.2	763.3	768.5	768.9	772.7	780.7	788.3	799.0	808.1
7.5°	711.7	714.5	717.2	725.9	733.5	734.2	741.5	754.3	764.4	777.5	793.8
10°	669.0	669.7	672.5	683.6	693.7	694.7	705.1	719.7	733.2	751.5	769.9
12.5°	634.0	636.1	635.4	643.7	652.4	653.1	667.0	685.3	705.1	725.9	747.7
15°	621.9	621.6	614.3	613.9	617.7	618.4	632.0	653.4	675.6	701.3	729.4
17.5°	630.2	627.4	608.4	596.6	594.2	594.9	604.9	628.5	652.1	681.5	715.1
20°	676.0	665.2	620.5	592.1	584.1	584.1	590.0	609.1	635.1	669.4	711.7
22.5°	784.5	767.8	672.5	621.9	593.8	591.0	586.5	601.1	629.9	671.1	725.9
25°	921.1	913.1	767.8	701.3	643.4	634.4	604.6	609.8	640.6	689.8	764.7
27.5°	1047.6	1033.7	893.0	816.7	734.9	721.0	658.0	636.8	666.3	724.5	820.9
30°	1121.4	1112.1	1021.6	948.8	851.4	833.7	743.2	690.2	712.0	781.7	900.6
32.5°	1201.9	1196.3	1150.5	1084.3	977.6	957.1	853.5	777.2	782.1	857.6	996.6
35°	1279.8	1287.1	1261.1	1212.6	1113.5	1094.4	1001.5	890.9	868.4	942.9	1099.2
37.5°	1373.4	1375.2	1358.9	1327.3	1256.3	1240.7	1164.1	1012.2	962.3	1033.7	1198.4
40°	1560.3	1532.9	1469.1	1444.2	1401.9	1392.2	1304.8	1123.5	1049.7	1127.0	1292.0
42.5°	1762.4	1719.8	1619.9	1579.0	1562.0	1553.0	1422.0	1197.7	1131.5	1220.2	1383.8
45°	1925.3	1890.7	1792.9	1742.3	1744.4	1729.8	1524.2	1263.9	1220.2	1313.8	1486.5
47.5°	2085.8	2027.9	1918.4	1911.1	1935.4	1913.9	1622.0	1330.1	1312.8	1415.7	1589.1
50°	2096.2	2043.5	1999.2	2057.4	2099.0	2072.3	1710.7	1416.8	1408.8	1539.1	1721.5
52.5°	1969.7	1962.1	2029.7	2127.8	2196.8	2172.8	1783.2	1505.9	1506.9	1693.4	1882.7
55°	1923.6	1913.9	1995.0	2115.6	2208.9	2194.7	1837.3	1606.4	1615.8	1880.6	2055.7
57.5°	2001.2	1977.0	1992.9	2092.8	2180.5	2172.1	1893.4	1718.0	1735.0	2096.2	2215.5
60°	2242.2	2192.6	2108.0	2126.7	2181.5	2176.6	1973.9	1842.5	1870.9	2320.9	2316.7
62.5°	2603.0	2546.9	2374.6	2291.4	2279.3	2269.9	2106.6	1995.3	2009.6	2483.1	2257.8
65°	2998.9	2938.6	2733.7	2597.5	2526.1	2506.0	2320.9	2179.8	2090.7	2482.7	2028.3
67.5°	3443.3	3379.5	3175.4	3045.4	2968.1	2933.7	2668.5	2328.8	2064.3	2272.7	1623.0
70°	3898.5	3837.8	3744.2	3789.6	3823.6	3771.3	3216.3	2378.4	1875.1	1781.8	1089.9
72.5°	3656.9	3652.0	3723.1	4153.6	4808.5	4818.9	3763.3	2238.4	1448.7	1059.0	581.0
73°	3432.6	3453.0	3584.8	4099.9	4892.7	4896.2	3774.0	2165.9	1330.1	912.4	510.3
75°	1778.3	1917.0	2405.8	3324.4	4530.4	4546.7	3326.8	1639.7	792.8	506.8	343.9
77.5°	476.3	470.1	775.1	1619.6	3020.4	2998.9	2102.1	793.8	379.9	317.9	241.3
80°	163.3	165.4	263.8	592.4	1409.8	1460.1	912.4	346.3	249.9	221.5	170.9
82.5°	83.2	86.0	138.0	252.0	589.7	577.2	293.6	203.8	167.4	134.5	95.7
85°	44.4	45.8	75.9	130.7	216.3	218.7	103.3	108.8	106.4	76.3	47.1
87.5°	21.8	22.5	36.4	57.5	80.1	77.3	36.1	47.1	52.3	43.0	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4	826.4
2.5°	820.9	820.9	825.4	833.0	838.6	843.8	847.2	852.8	855.9	855.5	855.2
5°	815.3	818.8	827.8	837.2	843.4	847.6	847.6	850.0	850.0	849.0	847.6
7.5°	802.5	808.4	821.6	829.9	831.6	827.1	818.1	811.2	802.5	798.0	796.3
10°	782.1	789.7	806.3	810.1	801.1	785.2	763.3	744.6	728.0	720.3	717.9
12.5°	761.9	772.0	787.6	781.7	760.2	729.0	695.4	669.7	651.0	643.7	641.3
15°	745.3	757.4	769.6	751.2	713.8	670.4	633.3	609.4	595.2	589.7	588.3
17.5°	734.2	748.4	752.6	718.3	666.3	617.7	584.8	569.2	563.0	560.5	559.8
20°	734.9	750.9	740.8	686.4	620.5	571.6	549.8	545.3	545.3	545.3	544.9
22.5°	754.0	767.8	735.9	656.6	576.5	532.8	523.4	527.3	530.0	530.0	529.7
25°	793.5	801.1	739.4	627.8	535.2	499.2	499.5	506.8	509.2	509.2	508.5
27.5°	853.8	847.6	745.7	595.9	494.7	468.7	473.5	480.1	481.9	480.8	480.5
30°	929.4	904.4	750.9	558.5	456.5	440.3	444.4	448.2	446.8	444.4	444.1
32.5°	1014.0	962.3	747.7	516.5	422.9	410.8	413.2	415.3	413.2	407.3	407.3
35°	1097.9	1014.7	730.7	470.8	396.2	382.4	382.0	388.6	388.3	381.3	381.7
37.5°	1171.3	1055.9	697.8	428.8	373.3	361.6	362.9	367.1	369.2	359.8	358.8
40°	1235.5	1084.3	651.4	393.1	355.0	355.7	351.9	345.3	342.8	338.7	338.0
42.5°	1295.8	1104.1	602.1	363.3	345.6	353.6	340.8	325.2	318.6	322.4	324.8
45°	1355.1	1126.3	554.6	338.7	333.8	347.3	329.7	312.3	304.7	306.4	308.9
47.5°	1427.5	1157.1	497.4	312.3	315.8	335.9	322.7	304.0	292.6	285.6	283.6
50°	1522.9	1201.9	423.3	283.9	296.7	323.4	316.8	291.9	279.4	265.5	262.1
52.5°	1642.1	1244.1	348.4	261.0	281.1	312.7	307.1	281.5	266.2	249.6	246.8
55°	1761.0	1250.0	283.9	241.3	263.5	298.1	295.3	273.2	251.7	238.2	235.4
57.5°	1844.2	1194.2	240.6	224.6	246.5	280.1	284.6	263.1	239.5	229.1	227.4
60°	1845.6	1060.8	214.2	213.5	233.6	264.5	273.5	251.3	231.9	225.0	223.6
62.5°	1699.0	854.9	197.2	205.2	224.3	251.7	265.2	244.7	230.2	227.4	226.0
65°	1424.1	631.6	183.7	197.6	215.6	240.9	258.3	242.7	229.5	228.4	227.4
67.5°	1051.4	433.0	172.3	187.9	205.9	229.8	251.7	239.5	225.3	229.5	228.1
70°	661.4	289.1	161.5	176.8	193.1	217.0	243.0	234.0	220.1	217.7	213.2
72.5°	373.3	209.0	148.7	162.6	176.4	200.0	231.2	224.6	208.3	198.6	194.1
73°	337.3	197.9	145.6	159.1	172.6	196.6	228.4	221.9	204.9	194.1	190.0
75°	246.8	161.9	131.4	144.9	156.7	180.6	215.3	208.0	189.6	176.8	174.0
77.5°	178.9	124.8	113.0	125.1	135.5	158.4	195.5	187.2	169.2	162.2	159.5
80°	129.0	94.6	93.6	105.4	114.4	137.6	174.4	165.7	148.4	168.8	164.3
82.5°	77.0	60.7	68.6	81.8	91.2	115.4	151.5	141.4	124.8	126.2	107.5
85°	36.7	34.3	42.6	53.7	60.3	79.0	126.2	118.2	99.8	81.8	80.1
87.5°	16.3	15.6	20.5	23.9	32.2	47.5	86.3	76.6	72.5	43.3	34.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)